NOVEMBER/DECEMBER 2024

23PCS12 — OBJECT ORIENTED ANALYSIS AND DESIGN AND C++

Time : Three hours Maximum : 75 marks

Shanmuga Industries Arts & Science College T.V.Malai

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define: Concurrency.
2. What is Persistence?
3. List the metrics for checking well-designed classes or objects.
4. What is Conceptual clustering?
5. List out any four applications of OOP.
6. What is a Destructor?
7. What is a Hybrid Inheritance?
8. Write the uses of 'this' Pointer.
9. Define: Polymorphism
10. List the three classes that are derived from fstream base.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Explain the application of the object model.

Or

(b) Write a note on Abstraction.

12. (a) Discuss the Interplay of classes and objects.

Or

(b) What are the key Abstractions and mechanisms in classification?

13. (a) How do the Member function can be defined in C++?

Or

(b) Discuss the Control Structures in C++.

14. (a) Discuss the Pointers to derived classes.

Or

(b) Write a C++ Program to find factorial of a number.

15. (a) Write a short note on String Manipulation.

Or

(b) Explain the various operations performed on Files.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the Nature of an object.

17. Explain the Object-oriented analysis.

18. Explain the Function overloading with Programming example.

19. What is Inheritance? Explain the various types of Inheritance with suitable examples in C++.

20. Discuss the Exception handling in C++.

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